

# BFAR 3 – Technology Outreach Station for Brackishwater

Hangga, San Pedro, Hagonoy, Bulacan



# Station Profile

- In 1980, this Station was established as Training Center that represents Climatic Zone I which covers Region 1,2,3 and parts of Region IV. It was a venue of training programs for BFAR Extension Officers, Bank Appraisers and other individuals engaged in Fishery Industry. The trainings then conducted were; Fisheries Extension Methodologies, Fisheries Economics and Fishpond Management and Planning. In 1986 it was merged with the Department of Agriculture under the Regional Integrated Agricultural Research Center and named “ The Research Outreach Station for Brackishwater Development Zone for BFAR Region 3. And finally, at present renamed as Technology Outreach Station for Brackishwater of BFAR Region 3. (TOSBW-BFAR<sub>3</sub>)

# FUNCTIONS

- The present functions of the TOSBW are the following:
  - a. Serves as the Production Center for Saline Tilapia Tolerant Tilapia (BEST<sub>1</sub>, BEST<sub>2</sub> and iBEST) for brackishwater aquaculture of BFAR<sub>3</sub>.
  - b. Serves as venue for meetings, seminars and trainings for BFAR<sub>3</sub> including LGU's and NGO's.
  - c. Conducts Research and Development on Brackishwater Aquaculture Aspects.
  - d. Extends Advisory and technical Assistance to walk-in-clients engaged in fisheries industry in the province of Bulacan.
  - e. Serves as venue on Hands on Training/Practicum of students taking up Fisheries Courses as requirements for their graduation.

# A. OPERATOR IDENTIFICATION

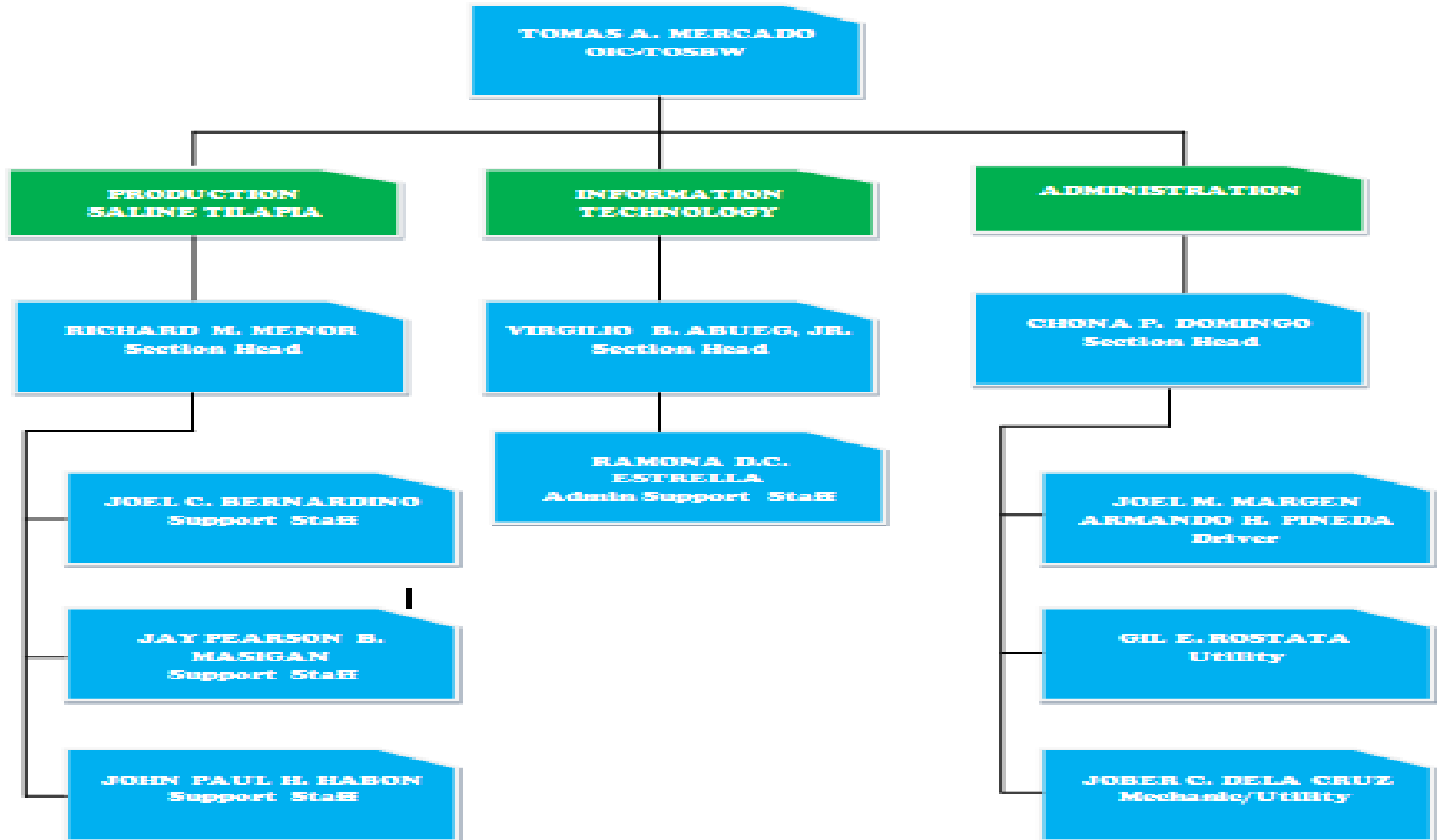
- Name of hatchery/farm : Technology Outreach Station for Brackishwater
- Location of Hatchery : Hangga, San Pedro, Hagonoy, Bulacan  
Officer in Charge – Tomas A. Mercado (August 2015)
- Address of Owner/Operator: Purok 7, San Pedro, Hagonoy, Bulacan
- Educational Attainment: BS Fisheries, Major in Inland Fisheries
- Date Graduated- 1977-1978
- School Attended- Pangasinan College of Fisheries) Binmaley, Pangasinan
- Contact Number: 09433605280

# STATION PROFILE

## Personnel Compliment

- 1. Tomas A. Mercado – OIC Chief TOSBW/Aqua II
- 2. Chona P. Domingo – Admin Officer III/Librarian
- 3. Joel Margen – Farm Worker II/Driver
- 4. Gil Rostata – Farm Worker I/Utility
- 5. Armando H. Pineda- Admin Aide III/Driver
- 6. Richard Menor – Section Head Production (J.O.)
- 7. Jowel Bernardino – Technical Support Staff (J.O.)
- 8. John Paul Habon – Technical Support Staff (Alternate Driver)
- 9. Jay Pearson Masigan- Technical Support Staff (J.O.)
- 10. Virgilio B. Abueg, Jr.-Section Head I.T. (J.O.)
- 11. Ramona D.C. Estrella – Admin Support Staff (J.O.)
- 12. Jober C. dela Cruz- Assistant Mechanic/Utility


# ORGANIZATIONAL CHART TOSBW



# STATION PROFILE

## Building and Facilities

- 1. Administration Office
- 2. Technical Staff's Office
- 3. Mini Library
- 4. Mini Laboratory
- 5. Session/Training Hall
- 6. 2 Storey Building/2 Visitors Quarters  
2 Guest Room
- 7. Banca Shed
- 8. Caretaker's hut
- 9. Broodstock ponds
- 10. Hatchery facilities
- 11. Post-harvest building
- 12. Motorpool
- 13. Dock Area for Patrol Boat

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- Activities:
  - Production of saline tolerant fingerlings (BEST) and (iBEST).
  - Serves as a venue for seminars/training and workshop
  - Conduct ON the Job Training from the different fishery schools on aquaculture management/technologies.
  - Transient in visitors/BFAR employees during official visit/travel in the Region.



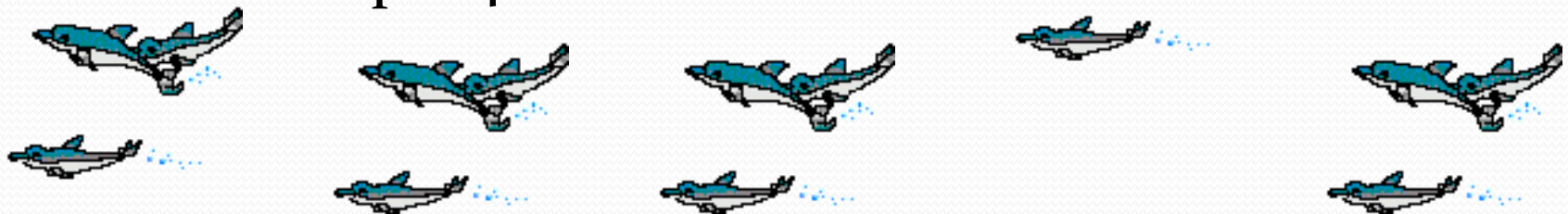
# B. FARM INFORMATION

- Type of Hatchery : ( / ) Tank Based Hapa Based
- Date Of Operation : 2011
- Hatchery Tanks – 4,000 m<sup>2</sup>;
- Broodstock Development Pond - .5ha (7 compartments)
- Tank Based

No.of tanks: 67

- HapaBased

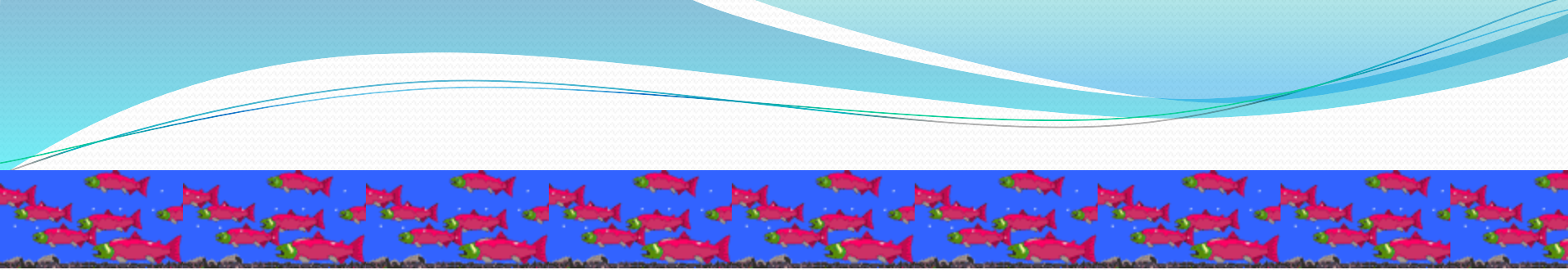
No.of hapa: 40





# Hatchery & Building Facilities





- Total production capacity/month (pcs) : 250,000
- Type of fingerlings produced : ( / ) mixed sex
- Number of breeders used : Male = 589 Female = 1,677
- Monthly fingerlings demand (pcs) ; 251,550
- Places where fingerlings are dispersed : Brackishwater Areas in Region 3
- Broodstock Acquisition : Year 2011
- Source of breeders : BEST : NFFTC



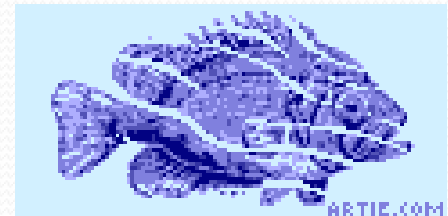
## 2. Importance of saline tilapia in Brackishwater Aquaculture

- BEST and iBEST is suitable in the Brackishwater Area of Region 3.



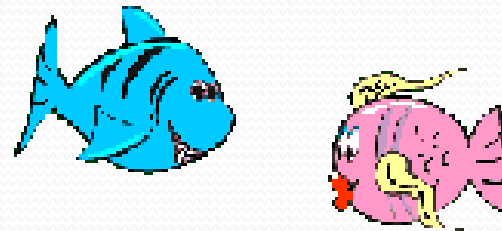
# Rearing of breeders up to sexual maturity.

- Request for the acquisition of BEST & iBEST fingerlings at BFAR - NFFTC.
- Pond Preparation prior to the stocking of for broodstock development.
- Monitoring of water parameters, survival and growth rate.
- Rearing until 3 to 4 months culture to reach sexual maturity.



# Conditioning of Fingerlings

- Fingerlings collected were conditioned in 3 days before dispersal.
- Advice clients to undertake proper acclimation before stocking.



# Distribution Protocol

- Based on the policy of the Regional Office.
- 20% for the walk-in-clients
- 80% for the Regional Dispersal Unit







**Loading and packing of Fingerlings – 1,000pcs/bag**



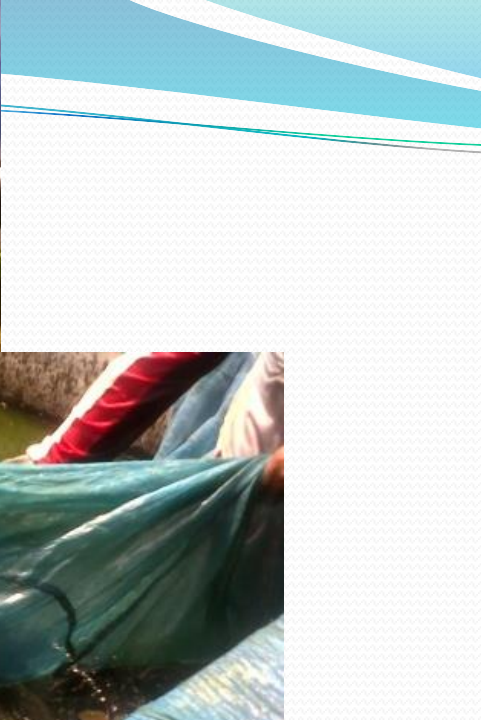
# FINGERLINGS DISTRIBUTION



# Broodstock Development

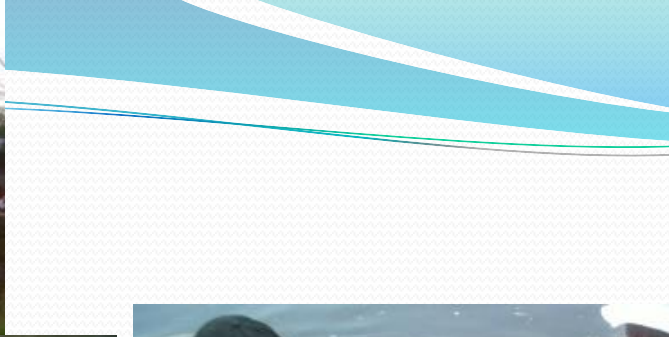
- Request and acquisition of broodstock from NFFTC City of Munoz
- Rearing/development into broodstock for 3 – 4 months
- Selection/collection of potential breeders
- One week conditioning
- Clipping/segregate female and male
- Another one week conditioning



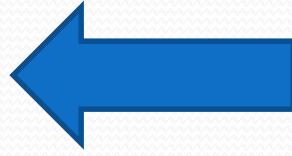


**Pairing of Potential Breeders**  
**Ratio – 1 male : 3 females**





## Selection of Sexually Matured/potential Breeders



Female



Male





# Production Protocol

| ▪ Activity/ies                     | No.of days |
|------------------------------------|------------|
| A. Tanks preparation               |            |
| • Cleaning                         | 1 day      |
| • Filling of water                 | 3 days     |
| B. Stocking/Conditioning           | 7 days     |
| C. Pairing                         |            |
| • Male = 1                         |            |
| • Female = 3                       | 1 day      |
| D. Breeding/Hatching               | 10 days    |
| E. Fry Collection/Draining/Harvest | 11 days    |
| F. Nursery                         | 7 days     |
| G. Conditioning of fingerlings     | 1 day      |
| H. Dispersal                       | 1 day      |
| I. Draining                        | 1 day      |

**Thank you!**

